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5 February 1970

Copy No. 3

MEMORANDUM FOR: Director of Scientific Intelligence

SUBJECT : NPIC Technical Briefings for OSI Personnel

REFERENCE : Memorandum for Executive Director, NPIC,
from Acting Director OSI, dated 16 Jan 1970;
Subject: Request for Technical Briefings,
[redacted]

1. I'm pleased that our recent briefings on technical factors involved in photointerpretation (Image Manipulation Program) were so well received by OSI personnel and I welcome your request for more. Closer communications on a continuing basis between our personnel will do much to further the work of both organizations.

2. In support of your list of suggested topics, we will need a little time to prepare additional graphic aids, particularly in the areas of imagery collection and reproduction. But, I am confident that we can start the series with a briefing on the various aspects of image mensuration on 16 March. The briefing itself will last about one hour.

3. For the second event, which we propose to hold on 30 March, we will be prepared to brief and discuss our Photo-Optical Image Evaluation Program. This is a many faceted subject, any part of which can be discussed for various lengths of time -- subjective-objective measures correlation, information extraction criteria, and system performance assessments. Therefore, I suggest we approach this subject in a seminar manner, planning for about two hours plus for a discussion on terminology and definitions.

4. The third session is proposed for 13 April and will focus on the variances of technical conditions involved in the collection of photography as well as its reproduction. This briefing will take approximately 2 hours.

5. Later briefings with exhibits for a larger audience to be held at NPIC can be scheduled for May. Specific dates for these events should be set sometime in March or April.

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SUBJECT; NPIC Technical Briefings for OSI Personnel

25X1 6. For any questions regarding coordination or schedules please
contact [redacted]

[redacted]
Executive Director, NPIC

Distribution:

Copies 1 & 2 - D/OSI

3 & 4 - NPIC/ODIR

5 - NPIC/PPBS/RAD

6 - NPIC/TSSG

7 - NPIC/IEG

SENDER WILL CHECK CLASSIFICATION TOP AND BOTTOM

OFFICIAL ROUTING SLIP

TO	NAME AND ADDRESS	DATE	INITIALS
1	ED/NPIC		
2	Attn: [REDACTED]		
3	[REDACTED]		
4			
5			
6			

<input type="checkbox"/>	ACTION	<input type="checkbox"/>	DIRECT REPLY	<input type="checkbox"/>	PREPARE REPLY
<input type="checkbox"/>	APPROVAL	<input type="checkbox"/>	DISPATCH	<input type="checkbox"/>	RECOMMENDATION
<input type="checkbox"/>	COMMENT	<input type="checkbox"/>	FILE	<input type="checkbox"/>	RETURN
<input type="checkbox"/>	CONCURRENCE	<input type="checkbox"/>	INFORMATION	<input type="checkbox"/>	SIGNATURE

Remarks:

FOLD HERE TO RETURN TO SENDER

FROM: NAME, ADDRESS AND PHONE NO.	DATE
AD/SI [REDACTED]	1/16/70

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16 JAN 1970

MEMORANDUM FOR: Executive Director, NPIC

SUBJECT: Request for Technical Briefings

1. On 18 December 1969 Messrs. [] of TSSG/APSD [] of TSSG/ESD discussed with a small group of us in OSI several technical factors in photointerpretation and, in addition, NPIC's plans for developing a photograph enhancement capability using computer techniques. This dual discussion was exceptionally well received by the participating Division Chiefs and their Deputies, and I believe that additional discussions of a similar nature would be warranted. Certainly additional discussions would help establish better communication between OSI personnel with intractable intelligence problems and those at NPIC who can apply to the solution of these problems technical expertise on the photographic side as an aid to photointerpretation.

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2. I suggest three such discussions with a select OSI group be arranged at, perhaps, bi-weekly intervals. A list of subjects which have been suggested by OSI personnel is attached. In addition, I think an illustrated lecture on the subject of the effects of scale, resolution, contrast, and film density, as well as current image enhancement capabilities, would be of benefit to a much larger audience of Langley analysts.

3. Please let me know your reaction to this suggestion, for I personally found [] discussions of

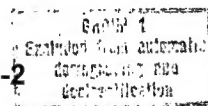
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SUBJECT: Request for Technical Briefings

great interest. [REDACTED] on black extension
[REDACTED] is prepared to assist your representative
in working out details.

Attachment
As stated

[REDACTED]
Acting Director
of
Scientific Intelligence

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Possible Subjects for Technical Briefings
of OSI Division Chief

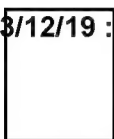
1. Illustrated discussion of how varying the technical conditions of collection of photography or of its reproduction can aid photointerpretation and measurement. The problems of aiding both search and detailed readout should be addressed. Optical method of image enhancement might be included, along with some discussion of how distortion factors affect speed and accuracy of enhancement.
2. A general discussion of photographic mensuration, including what can be measured, what are the controlling factors, what are the modern techniques, and what are the current accuracies. Of interest to several groups of analysts appear to be such subjects as the accurate measurement of large objects, such as submarines; the measurement of very small objects, such as nosecone containers; the measurement of "difficult" objects, such as transformers. Modern methods of measuring objects in hand-held "ground" photography is also of major interest to groups of analysts concerned with aircraft systems, etc.
3. A discussion with exhibits [redacted] of new readout instruments now available or being developed and how these conceptually might be used in improving the efficiency of handling possible oncoming systems,
[redacted]

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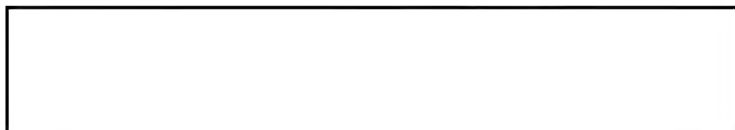
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CENTER FOR THE STUDY

FROM		DATE	
OSI		22 Jan	
TO	INITIALS	DATE	REMARKS
DIRECTOR			<p>1-3</p> <p>JFH would like to have an answer by cob Tuesday, 27 Jan, on whether or not we can comply, what's involved, and who's involved. JFH is looking for ways to build bridges with OSI but before responding he would like a realistic appraisal.</p> <p><u>at</u></p> <p>3-1 ac: see attached prepared by Rob E. ghe</p>
DEP/DIRECTOR			
EXEC/DIRECTOR	2	1/23	
SPECIAL ASST	1	1/22	
ASST TO DIR			
HISTORIAN			
CH/PPBS			
DEP CH/PPBS			
EO/PPBS	3	1/21	
CH/IEG			
DEP CH/IEG			
EO/IEG			
CH/PSG			
DEP CH/PSG			
EO/PSG			
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DEP CH/TSSG			
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CH/SSD/TSSG			
PERSONNEL			
LOGISTICS			
TRAINING			
RECORDS MGT			
SECURITY			
FINANCE			
DIR/IAS/DDI			
CH/DIAXX-4			
CH/DIAAP-9			
CH/SPAD			

TS

28 Jan 70

Re Tech Briefings for OSI:

- Do a reply from me to
 along these lines:

- Great ideas

- have some work to do to get ready -- expect to be ready by (you choose). Is that to date OK?

- A little bit on how we plan to do it.

- Readiness to repeat briefings for other OSI personnel.

- See my note on p. 2 of
your brief.

27/1

I. BACKGROUND: As the result of NPIC responses to specific requests from
[redacted] requested that his staff be briefed on Image
Enhancement and Digital Image Manipulation of black and white photography.
The application of these methods, as they affect imagery interpretation,
were briefed to OSI by [redacted] in December 1969.

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II. RESPONSE TO [redacted] LETTER

After a discussion with representatives of APSD, RED and PHD it was
resolved that:

1. The request should be handled in two parts, e.g.,
 - a. A series of three two-hour briefings for the OSI division chiefs.
 - b. A briefing for the analysts, at some subsequent date, which would incorporate the ideas and suggestions stimulated or recommended by the division chiefs.
2. Currently, with little additional preparation, both RED and PHD could satisfy their portions of the division chiefs' briefings. APSD could also satisfy the request but feels that their on-hand briefing aids are inadequate. This inadequacy is reflected in a currently approved project (910238) which would necessitate the expenditure of approximately 200 manhours of APSD effort and approximately 100 manhours of PSG effort. The project has a 1 March deadline and would require a shift in the priority of APSD and possibly PSG effort to insure its completion on schedule.
3. It was the consensus of RED, APSD and my opinion that:
 - a. Every effort be made to complete project 910238 on schedule.
 - b. The division chiefs' briefings be scheduled to begin on or about 15 March.

- c. That the briefings be scheduled in sequence (what can the II/photogrammetrist do now-followed by those methods, techniques and equipments scheduled for use in the near future) and
- d. The briefings(s) for the analysts be combined with a briefing(s) for the NPIC/IAS II's and scheduled for some future date.

NOTE: This/these briefing(s) may require additional graphic support.

III. NOTE OF CAUTION

It is my opinion that briefings of this nature are healthy. Placing these additional tools in the hands of the analysts may, however, stimulate additional requirements which could tax NPIC resources. Hopefully, these briefings would educate the analyst in the terminology and capabilities of NPIC thereby insuring more meaningful communications and precluding misunderstanding and wasted II effort.



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Please, damn it, let us not include such thoughts in our beforehand considerations.

H